

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,518	06/26/2003	Wolfgang Spirkl	MUH-12674	6033
27346 7590 62/20/2008 LERNER GREENBERG STEMER LLP FOR INFINEON TECHNOLOGIES AG			EXAMINER	
			TRIMMINGS, JOHN P	
P.O. BOX 2480 HOLLYWOOD, FL 33022-2480		ART UNIT	PAPER NUMBER	
	-,		2117	
			MAIL DATE	DELIVERY MODE
			02/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/607.518 SPIRKL ET AL. Office Action Summary Examiner Art Unit JOHN P. TRIMMINGS 2117 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 June 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 June 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 6/26/2003.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Page 2

Application/Control Number: 10/607,518

Art Unit: 2117

#### DETAILED ACTION

Claims 1-14 are presented for examination.

### Priority

 The examiner acknowledges the applicant's claim of priority based on a foreign application.

### Information Disclosure Statement

2. The examiner has considered the applicant's IDS dated 6/26/2003.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanazaki et al. (herein Tanazaki), US Patent No. 6762967 in view of Kang, US Patent No. 5299168.

As per claim 1:

Tanazaki teaches a method for checking the refresh function of a memory having a refresh device (see Abstract for example or Summary), which comprises: supplying a control unit (FIG. 1 101, 108, 109, 111) of the memory (FIG. 1 100) with refresh test

Art Unit: 2117

pulses (FIG. 1 output of 101) produced outside the memory (FIG. 14 CLK) instead of supplying the control unit with the refresh request pulses (FIG. 14 300); and checking the refresh device of the memory utilizing the refresh test pulses (column 3 lines 50-59), but fails to further disclose determining if refresh request pulses are being produced on the memory and at what intervals of time the refresh request pulses are being produced on the memory. But in the analogous art of Kang, these features are taught where the complete cycle of addresses based on refresh pulses is verified as well as the "cycle time" of the refresh cycle (column 5 lines 58-64). And in column 2 lines 13-30, the advantage stated from Kang is a means of verifying the "cycle time" in a self-refresh memory as well as verifying that all refresh addresses were generated. One with ordinary skill in the art at the time of the invention, motivated as suggested, would have found it obvious to include the unique features of Kang (verifying cycle time and addressing) in the self-refresh test system of Tanazaki in order to provide an enhanced refresh diagnostic system for memories.

### As per claim 2:

As per claim 3:

Kang further teaches the method according to claim 1, which further comprises controlling the checking of the refresh device with the control unit (column 5 lines 58-64). And in view of the motivation previously stated, the claim is rejected.

Tanazaki further teaches the method according to claim 1, which further comprises supplying the refresh test pulses and the refresh request pulses to a

Page 4

Application/Control Number: 10/607,518

Art Unit: 2117

multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 4:

Tanazaki further teaches the method according to claim 2, which further comprises supplying the refresh test pulses and the refresh request pulses to a multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 5:

Tanazaki further teaches the method according to claim 1, which further comprises supplying the refresh test pulses and the refresh request pulses to the control unit through a multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 6:

Tanazaki further teaches the method according to claim 2, which further comprises supplying the refresh test pulses and the refresh request pulses to the control unit through a multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim, 7:

Tanazaki further teaches the method according to claim 1, which further comprises: connecting a multiplex device (FIG. 14 40) to the control unit (the combined 101, 108, 109, 111 units of FIG. 1); and supplying the refresh test pulses and the

Art Unit: 2117

refresh request pulses to the control unit through the multiplex device (see column 7 lines 29-44). And in view of the motivation previously stated, the claim is rejected.

As per claim 8:

Tanazaki further teaches the method according to claim 2, which further comprises: connecting a multiplex device to the control unit; and supplying the refresh test pulses and the refresh request pulses to the control unit through the multiplex device. (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 9:

Tanazaki further teaches the method according to claim 3, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 10:

Tanazaki further teaches the method according to claim 4, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 11:

Tanazaki further teaches the method according to claim 5, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC

Art Unit: 2117

SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 12:

Tanazaki further teaches the method according to claim 6, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 13:

Tanazaki further teaches the method according to claim 7, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 14:

Tanazaki further teaches the method according to claim 8, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN P. TRIMMINGS whose telephone number is

Art Unit: 2117

(571)272-3830. The examiner can normally be reached on Monday through Thursday, 7:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John P Trimmings/ Primary Examiner, Art Unit 2117